

ATTORNEY DOCKET NO.
004578.1073

PATENT APPLICATION
09/660,733

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IN THE SPECIFICATION

Applicants are amending the paragraph which appears at lines 4-23 on page 11 of the specification so that, after amendment, it will read as set forth in the clean version of this paragraph which appears below. Enclosed with this Amendment is a marked-up version of the paragraph, showing in bold type the change which has been made by this Amendment.

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--- The central openings through cooling loops 52 define continuous fluid passageways 54 within slat assembly 34. Fluid passageways 54 form paths of fluid communication between inlets 48 and outlets 50. Accordingly, cooling loops 52 may be coupled, using the interfaces 46, with external cooling systems 51 to provide fluid coolant to each inlet 48. In other words, each cooling system 51 is a fluid supply device to supply fluid coolant to an inlet 48. The coolant travels from each inlet 48 through passageway 54 to the corresponding outlet 50. A complete coolant loop is thereby formed allowing a continuous flow of fluid coolant to be provided through each cooling loop 52. The fluid coolant traveling through cooling loop 52 absorbs thermal energy generated by electronic components 20 and 33 of device 30. The amount of fluid provided for cooling is dictated by pressure drop and system capacity criteria. The high density packaging requirements of an active phased array antenna result in small volumes for cooling tubes which lead to reduced flow rates. The reduced flow rates then result in increased temperature rise in the fluid from inlet 48 to outlet 50. ---